

Python Fun(damentals)

Python Boolean Types

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Obscurity Labs

```
* bool
```



What Are Boolean's

- Booleans represent one of two values: `True` or `False` .
- In programming you often need to know if an expression is `True` or `False` .
- You can evaluate any expression in Python, and get one of two answers, `True` or `False` .
- When you compare two values, the expression is evaluated and Python returns the Boolean answer.
- Used heavy in logic flow.

Boolean Operations

Operation	Result
<, <=, >=, >	comparison operators
==, !=, is, is not, in	comparison operators (continue)
not in	comparison operators (continue)
not	boolean NOT
and	boolean AND
or	boolean OR
bool()	type check

Using Booleans

Using the python interpreter we can perform live comparison operations:

```
Python 3.7.5 (default, Apr 19 2020, 20:18:17)
[GCC 9.2.1 20191008] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> 'hi' == 'hi'
True

>>> 5 == (3 + 2)    # Is five equal 5 to the result of 3 + 2?
True

>>> print(bool("Hello World"))
print(bool("Hello World"))
```

Why?

Lab 1

Tasking

Using the new `python` command perform the following get familiar with `bool` types:

1. Perform a basic compare operation ex. `'hi' == 'hi'`
2. Perform a basic `in` operation ex. `'hi' in 'hi'`